

Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P935170

Luminaire Tested: SQ4-FA-100U-075D-935-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

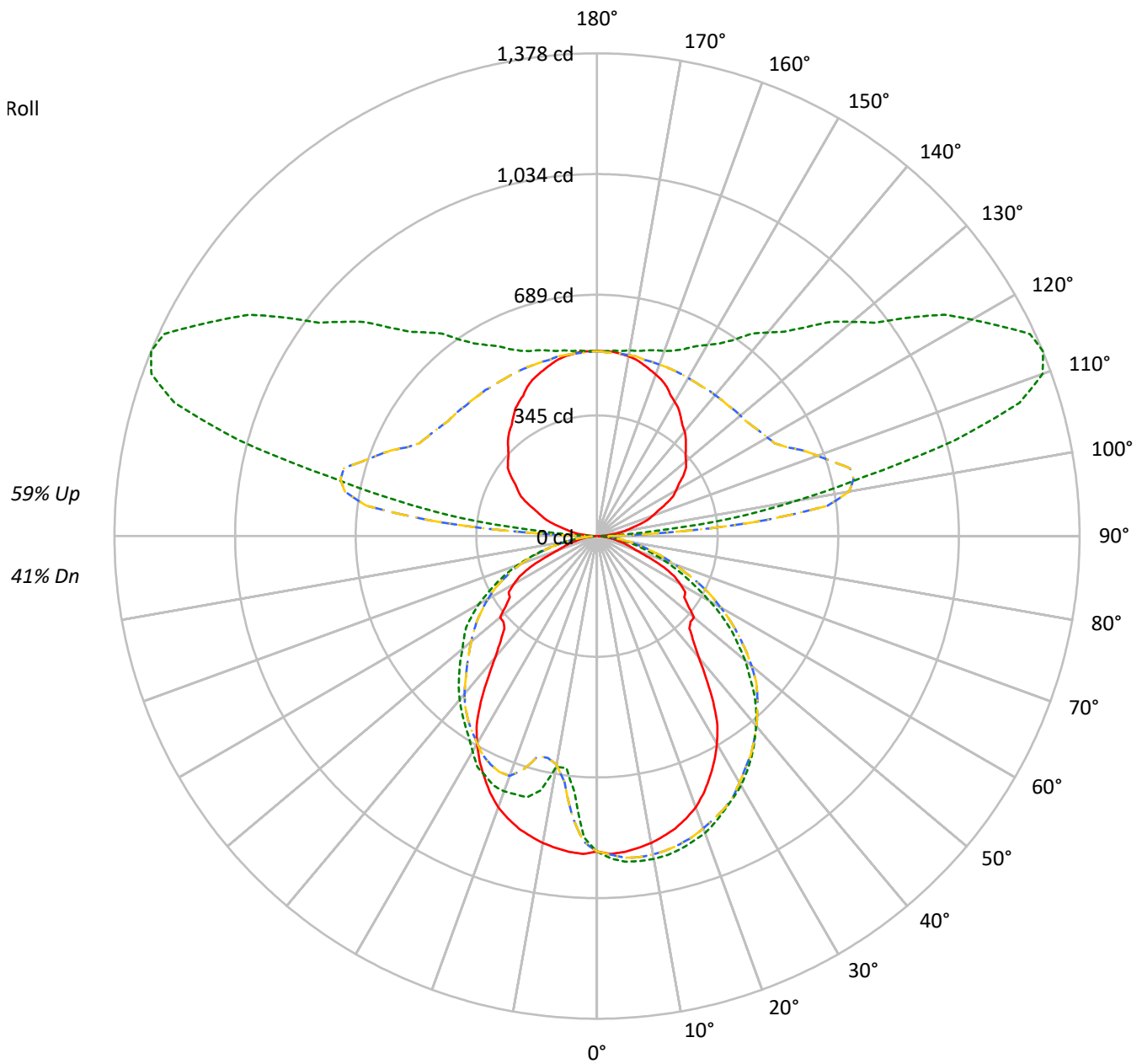
Test Method: LM-79-2019  
Report Number: P935170  
REPORT IS A COMBINATION OF REPORTS P933742 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-075D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5760.3 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 49.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

TEST NUMBER: P935170  
CATALOG NUMBER: SQ4-FA-100U-075D-935-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°    - - - 135°-315°



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	47	47	47	41
1	96	91	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40	40	40	40	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34	34	34	34	29
3	79	70	63	57	72	64	58	53	53	48	45	42	39	37	33	31	29	29	29	29	24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	25	25	25	21
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	22	22	22	22	18
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19	19	19	19	16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	17	17	17	14
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15	15	15	15	13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	13	13	13	13	11
10	46	34	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12	12	12	12	10

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	8357	8357	8357	8357
5°	8410	8437	8410	6634
10°	8345	8311	8345	5941
15°	8245	8131	8245	6789
20°	8063	7917	8063	6803
25°	7701	7606	7701	6659
30°	7236	7348	7236	6343
35°	6442	7021	6442	5995
40°	5358	6637	5358	5732
45°	4779	6187	4779	5429
50°	5065	5650	5065	5127
55°	4752	5071	4752	4952
60°	4879	4307	4879	4535
65°	4403	3560	4403	3980
70°	3029	2836	3029	3335
75°	2627	2098	2627	2511
80°	2073	1387	2073	1510
85°	1126	735	1126	625

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 7337 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.3	1.4
10°-20°	230.8	4.0
20°-30°	356.8	6.2
30°-40°	426.0	7.4
40°-50°	428.5	7.4
50°-60°	372.8	6.5
60°-70°	264.3	4.6
70°-80°	139.8	2.4
80°-90°	36.8	0.6
90°-100°	257.4	4.5
100°-110°	676.7	11.7
110°-120°	701.7	12.2
120°-130°	562.8	9.8
130°-140°	441.6	7.7
140°-150°	339.0	5.9
150°-160°	244.1	4.2
160°-170°	149.4	2.6
170°-180°	50.5	0.9
0°-30°	669.0	11.6
0°-40°	1095.0	19.0
0°-60°	1896.3	32.9
0°-90°	2337.3	40.6
90°-120°	1635.7	28.4
90°-150°	2979.1	51.7
90°-180°	3423.0	59.4
0°-180°	5760.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	901	901	901	901	901	
5°	905	933	905	734	905	86
15°	864	925	864	772	864	243
25°	761	862	761	755	761	349
35°	579	769	579	657	579	358
45°	373	634	373	556	373	299
55°	304	468	304	457	304	280
65°	211	282	211	315	211	202
75°	80	134	80	160	80	84
85°	14	34	14	29	14	18
90°	4	14	4	14	4	4
95°	34	156	34	156	34	38
105°	122	1060	122	1060	122	129
115°	216	1364	216	1364	216	214
125°	301	1087	301	1087	301	267
135°	359	843	359	843	359	278
145°	416	684	416	684	416	261
155°	471	589	471	589	471	216
165°	508	549	508	549	508	143
175°	528	532	528	532	528	50
180°	528	528	528	528	528	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6
2.5°	908.3	908.3	913.5	915.2	915.2	912.7	910.1	912.7	920.3	922.9	922.0
5°	904.9	911.8	921.2	922.9	924.6	923.7	922.0	923.7	932.3	934.0	934.8
7.5°	898.1	911.0	922.9	925.4	928.0	925.4	924.6	926.3	934.8	936.5	936.5
10°	889.6	907.5	921.2	922.9	925.4	922.9	922.9	926.3	934.8	936.5	937.4
12.5°	877.6	902.4	915.2	916.9	920.3	919.5	918.6	922.0	930.6	932.3	932.3
15°	864.0	893.0	904.9	906.6	912.7	911.0	911.0	914.4	923.7	926.3	925.4
17.5°	845.3	881.1	894.7	897.2	901.5	900.6	901.5	904.9	913.5	915.2	916.1
20°	824.0	864.9	881.1	883.6	887.9	887.9	887.9	892.1	900.6	904.1	904.1
22.5°	795.0	847.8	864.9	866.6	871.7	871.7	873.4	879.3	887.0	887.9	887.9
25°	760.9	829.1	843.6	848.7	853.8	856.3	858.9	862.3	864.9	864.0	864.9
27.5°	725.1	805.2	824.0	827.4	834.2	836.7	840.2	841.0	841.9	844.4	842.7
30°	685.1	772.0	800.1	803.5	814.6	816.3	812.9	814.6	818.9	820.6	822.3
32.5°	639.9	722.6	775.4	783.1	793.3	788.2	787.3	789.9	796.7	796.7	798.4
35°	578.6	684.2	752.4	759.2	766.9	760.9	764.3	765.2	769.4	772.0	771.1
37.5°	511.3	651.0	728.5	733.7	739.6	732.0	737.1	739.6	743.0	741.3	741.3
40°	451.6	599.0	700.4	703.8	708.9	703.0	708.1	709.8	711.5	709.8	708.9
42.5°	407.3	542.0	670.6	674.9	671.5	675.7	677.4	680.8	678.3	674.9	674.9
45°	373.3	526.6	638.2	643.3	638.2	645.0	647.6	647.6	639.9	638.2	637.4
47.5°	362.2	495.9	605.9	605.9	603.3	611.8	616.1	610.1	602.4	599.9	599.9
50°	361.3	461.9	561.6	558.1	570.1	580.3	576.0	570.1	564.1	554.7	554.7
52.5°	328.1	420.1	504.5	517.2	536.0	542.0	535.1	529.2	519.0	514.7	511.3
55°	304.2	376.7	452.5	478.1	497.7	505.3	492.5	486.6	471.2	468.7	467.0
57.5°	299.1	313.6	404.8	437.2	461.0	460.2	452.5	441.4	428.6	426.1	425.2
60°	274.3	226.6	353.7	392.0	416.7	414.2	407.3	397.1	385.2	383.5	381.8
62.5°	248.8	164.4	295.6	339.2	374.1	373.3	367.3	352.0	343.4	339.2	335.8
65°	211.3	138.0	210.4	282.0	332.4	334.1	321.3	310.2	300.8	295.6	294.8
67.5°	161.0	112.5	142.3	235.2	292.2	290.5	274.3	269.2	257.3	254.7	249.6
70°	119.3	75.0	98.8	190.8	253.0	248.8	236.0	230.0	219.0	213.0	209.6
72.5°	98.8	60.5	72.4	148.2	213.0	207.9	196.8	190.0	180.6	175.5	172.1
75°	80.1	63.9	55.4	109.9	173.0	169.5	159.3	152.5	144.8	138.0	138.9
77.5°	58.8	59.6	44.3	80.9	137.2	132.1	126.1	117.6	114.2	107.4	107.4
80°	44.3	46.9	33.2	55.4	98.8	98.8	93.7	87.8	81.8	78.4	78.4
82.5°	29.8	29.8	24.7	34.9	67.3	64.8	61.3	59.6	56.2	54.5	54.5
85°	13.6	17.0	15.3	21.3	36.6	38.3	38.3	36.6	35.8	34.1	34.9
87.5°	4.3	7.7	9.4	11.9	18.7	19.6	20.4	20.4	20.4	21.3	21.3
90°	3.6	6.4	9.2	9.9	15.6	23.2	26.9	23.9	18.0	13.5	13.5
92.5°	14.1	38.3	62.4	68.4	96.2	133.2	151.7	132.9	95.4	67.3	64.7
95°	34.0	78.1	122.3	133.3	236.6	374.4	443.3	395.6	300.2	228.6	220.5
97.5°	58.8	97.7	136.7	146.4	318.7	548.5	663.4	633.2	572.9	527.6	512.2
100°	78.0	113.2	148.5	157.4	348.6	603.6	731.1	733.3	737.7	741.0	722.6
102.5°	94.2	127.2	160.1	168.4	362.4	620.9	750.3	788.7	865.5	923.1	907.4
105°	121.9	149.8	177.6	184.6	372.5	622.9	748.1	834.3	1006.6	1135.8	1127.4
107.5°	150.3	176.3	202.3	208.7	374.4	595.1	705.5	825.8	1066.1	1246.4	1248.4
110°	169.4	192.9	216.3	222.2	371.5	570.6	670.1	804.5	1073.2	1274.7	1283.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	188.2	210.5	232.9	238.5	371.6	549.1	637.9	775.4	1050.3	1256.6	1270.2
115°	216.5	237.1	257.7	262.9	375.1	524.6	599.3	731.8	996.7	1195.4	1214.1
117.5°	244.5	263.3	282.0	286.7	382.0	509.2	572.7	692.2	931.3	1110.7	1131.5
120°	260.8	278.4	296.1	300.5	387.7	504.0	562.1	671.3	889.7	1053.6	1073.9
122.5°	276.8	294.6	312.4	316.9	395.8	501.2	553.9	652.2	848.9	996.5	1016.4
125°	301.3	317.5	333.6	337.7	406.8	498.9	545.0	628.6	795.7	921.0	939.4
127.5°	321.0	337.4	353.8	357.9	417.8	497.7	537.6	609.4	752.8	860.4	875.9
130°	331.7	349.3	367.0	371.4	425.8	498.5	534.8	598.7	726.4	822.2	836.5
132.5°	342.7	360.3	377.9	382.4	432.3	498.9	532.2	589.4	703.8	789.5	802.4
135°	359.0	375.1	391.2	395.2	439.5	498.5	528.1	576.0	671.6	743.5	754.5
137.5°	375.6	391.6	407.4	411.4	450.0	501.6	527.3	567.8	648.7	709.5	718.5
140°	389.4	404.1	418.8	422.4	456.6	502.1	524.8	559.8	629.7	682.2	690.6
142.5°	400.1	413.6	427.2	430.6	462.0	503.9	524.8	555.5	616.9	663.0	670.4
145°	416.4	428.2	440.0	443.0	469.1	504.0	521.3	546.5	596.7	634.3	639.9
147.5°	432.7	444.2	455.6	458.5	479.5	507.4	521.3	541.1	580.6	610.3	614.9
150°	443.3	453.7	464.1	466.7	485.0	509.2	521.3	538.0	571.4	596.4	600.1
152.5°	454.3	462.1	470.0	472.0	488.5	510.3	521.3	535.6	564.0	585.4	588.2
155°	470.6	476.4	482.3	483.8	496.3	513.0	521.3	532.7	555.3	572.3	574.2
157.5°	482.7	488.4	494.0	495.4	504.0	515.5	521.3	530.1	547.8	561.0	562.2
160°	490.8	495.3	499.6	500.7	507.6	516.7	521.3	528.9	544.0	555.3	556.1
162.5°	498.9	502.3	505.6	506.4	511.4	518.0	521.3	527.7	540.4	550.0	550.6
165°	507.8	510.8	513.8	514.5	516.8	519.8	521.3	525.9	535.1	541.9	542.6
167.5°	516.0	517.4	518.9	519.2	521.1	523.6	524.8	527.8	533.8	538.3	538.6
170°	521.3	522.7	524.2	524.5	524.6	524.7	524.8	527.8	533.8	538.3	538.3
172.5°	524.2	524.5	524.7	524.8	524.8	524.8	524.8	527.2	531.9	535.5	535.2
175°	528.1	528.1	528.1	528.1	527.0	525.5	524.8	526.4	529.3	531.6	531.6
177.5°	528.1	528.1	528.1	528.1	527.2	526.1	525.5	526.7	529.1	530.9	530.5
180°	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6
2.5°	923.7	921.2	923.7	922.0	922.9	920.3	912.7	910.1	912.7	915.2	915.2
5°	934.8	933.1	934.8	934.8	934.0	932.3	923.7	922.0	923.7	924.6	922.9
7.5°	938.2	935.7	938.2	936.5	936.5	934.8	926.3	924.6	925.4	928.0	925.4
10°	938.2	935.7	938.2	937.4	936.5	934.8	926.3	922.9	922.9	925.4	922.9
12.5°	934.0	932.3	934.0	932.3	932.3	930.6	922.0	918.6	919.5	920.3	916.9
15°	927.1	924.6	927.1	925.4	926.3	923.7	914.4	911.0	911.0	912.7	906.6
17.5°	916.9	913.5	916.9	916.1	915.2	913.5	904.9	901.5	900.6	901.5	897.2
20°	904.9	902.4	904.9	904.1	904.1	900.6	892.1	887.9	887.9	887.9	883.6
22.5°	886.2	883.6	886.2	887.9	887.9	887.0	879.3	873.4	871.7	871.7	866.6
25°	864.9	862.3	864.9	864.9	864.0	864.9	862.3	858.9	856.3	853.8	848.7
27.5°	844.4	842.7	844.4	842.7	844.4	841.9	841.0	840.2	836.7	834.2	827.4
30°	824.0	822.3	824.0	822.3	820.6	818.9	814.6	812.9	816.3	814.6	803.5
32.5°	798.4	796.7	798.4	798.4	796.7	796.7	789.9	787.3	788.2	793.3	783.1
35°	772.0	769.4	772.0	771.1	772.0	769.4	765.2	764.3	760.9	766.9	759.2
37.5°	741.3	738.8	741.3	741.3	741.3	743.0	739.6	737.1	732.0	739.6	733.7
40°	709.8	706.4	709.8	708.9	709.8	711.5	709.8	708.1	703.0	708.9	703.8
42.5°	674.0	673.2	674.0	674.9	674.9	678.3	680.8	677.4	675.7	671.5	674.9
45°	635.7	634.0	635.7	637.4	638.2	639.9	647.6	647.6	645.0	638.2	643.3
47.5°	594.8	590.5	594.8	599.9	599.9	602.4	610.1	616.1	611.8	603.3	605.9
50°	551.3	552.2	551.3	554.7	554.7	564.1	570.1	576.0	580.3	570.1	558.1
52.5°	508.7	507.9	508.7	511.3	514.7	519.0	529.2	535.1	542.0	536.0	517.2
55°	466.1	467.8	466.1	467.0	468.7	471.2	486.6	492.5	505.3	497.7	478.1
57.5°	423.5	421.0	423.5	425.2	426.1	428.6	441.4	452.5	460.2	461.0	437.2
60°	374.1	370.7	374.1	381.8	383.5	385.2	397.1	407.3	414.2	416.7	392.0
62.5°	330.7	324.7	330.7	335.8	339.2	343.4	352.0	367.3	373.3	374.1	339.2
65°	284.6	282.0	284.6	294.8	295.6	300.8	310.2	321.3	334.1	332.4	282.0
67.5°	242.8	242.8	242.8	249.6	254.7	257.3	269.2	274.3	290.5	292.2	235.2
70°	204.5	203.6	204.5	209.6	213.0	219.0	230.0	236.0	248.8	253.0	190.8
72.5°	167.8	167.0	167.8	172.1	175.5	180.6	190.0	196.8	207.9	213.0	148.2
75°	135.5	133.8	135.5	138.9	138.0	144.8	152.5	159.3	169.5	173.0	109.9
77.5°	103.9	103.9	103.9	107.4	107.4	114.2	117.6	126.1	132.1	137.2	80.9
80°	77.5	76.7	77.5	78.4	78.4	81.8	87.8	93.7	98.8	98.8	55.4
82.5°	54.5	52.8	54.5	54.5	54.5	56.2	59.6	61.3	64.8	67.3	34.9
85°	34.1	34.1	34.1	34.9	34.1	35.8	36.6	38.3	38.3	36.6	21.3
87.5°	22.2	21.3	22.2	21.3	21.3	20.4	20.4	20.4	19.6	18.7	11.9
90°	13.5	13.5	13.5	13.5	13.5	18.0	23.9	26.9	23.2	15.6	9.9
92.5°	53.9	43.2	53.9	64.7	67.3	95.4	132.9	151.7	133.2	96.2	68.4
95°	188.0	155.6	188.0	220.5	228.6	300.2	395.6	443.3	374.4	236.6	133.3
97.5°	450.5	388.8	450.5	512.2	527.6	572.9	633.2	663.4	548.5	318.7	146.4
100°	649.1	575.5	649.1	722.6	741.0	737.7	733.3	731.1	603.6	348.6	157.4
102.5°	844.4	781.5	844.4	907.4	923.1	865.5	788.7	750.3	620.9	362.4	168.4
105°	1093.5	1059.6	1093.5	1127.4	1135.8	1006.6	834.3	748.1	622.9	372.5	184.6
107.5°	1256.6	1264.8	1256.6	1248.4	1246.4	1066.1	825.8	705.5	595.1	374.4	208.7
110°	1318.8	1354.1	1318.8	1283.5	1274.7	1073.2	804.5	670.1	570.6	371.5	222.2





TEST NUMBER: P935170

CATALOG NUMBER: SQ4-FA-100U-075D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1324.3	1378.5	1324.3	1270.2	1256.6	1050.3	775.4	637.9	549.1	371.6	238.5
115°	1289.2	1364.4	1289.2	1214.1	1195.4	996.7	731.8	599.3	524.6	375.1	262.9
117.5°	1214.8	1298.1	1214.8	1131.5	1110.7	931.3	692.2	572.7	509.2	382.0	286.7
120°	1154.8	1235.7	1154.8	1073.9	1053.6	889.7	671.3	562.1	504.0	387.7	300.5
122.5°	1096.4	1176.2	1096.4	1016.4	996.5	848.9	652.2	553.9	501.2	395.8	316.9
125°	1012.9	1086.6	1012.9	939.4	921.0	795.7	628.6	545.0	498.9	406.8	337.7
127.5°	938.1	1000.1	938.1	875.9	860.4	752.8	609.4	537.6	497.7	417.8	357.9
130°	893.8	951.2	893.8	836.5	822.2	726.4	598.7	534.8	498.5	425.8	371.4
132.5°	853.7	905.1	853.7	802.4	789.5	703.8	589.4	532.2	498.9	432.3	382.4
135°	798.8	843.1	798.8	754.5	743.5	671.6	576.0	528.1	498.5	439.5	395.2
137.5°	754.8	791.0	754.8	718.5	709.5	648.7	567.8	527.3	501.6	450.0	411.4
140°	724.5	758.4	724.5	690.6	682.2	629.7	559.8	524.8	502.1	456.6	422.4
142.5°	699.5	728.6	699.5	670.4	663.0	616.9	555.5	524.8	503.9	462.0	430.6
145°	661.9	684.0	661.9	639.9	634.3	596.7	546.5	521.3	504.0	469.1	443.0
147.5°	633.1	651.4	633.1	614.9	610.3	580.6	541.1	521.3	507.4	479.5	458.5
150°	614.9	629.7	614.9	600.1	596.4	571.4	538.0	521.3	509.2	485.0	466.7
152.5°	599.4	610.6	599.4	588.2	585.4	564.0	535.6	521.3	510.3	488.5	472.0
155°	581.6	589.0	581.6	574.2	572.3	555.3	532.7	521.3	513.0	496.3	483.8
157.5°	567.5	572.7	567.5	562.2	561.0	547.8	530.1	521.3	515.5	504.0	495.4
160°	559.1	562.1	559.1	556.1	555.3	544.0	528.9	521.3	516.7	507.6	500.7
162.5°	553.5	556.4	553.5	550.6	550.0	540.4	527.7	521.3	518.0	511.4	506.4
165°	545.6	548.6	545.6	542.6	541.9	535.1	525.9	521.3	519.8	516.8	514.5
167.5°	539.8	541.1	539.8	538.6	538.3	533.8	527.8	524.8	523.6	521.1	519.2
170°	538.3	538.3	538.3	538.3	538.3	533.8	527.8	524.8	524.7	524.6	524.5
172.5°	534.1	533.0	534.1	535.2	535.5	531.9	527.2	524.8	524.8	524.8	524.8
175°	531.6	531.6	531.6	531.6	531.6	529.3	526.4	524.8	525.5	527.0	528.1
177.5°	529.3	528.1	529.3	530.5	530.9	529.1	526.7	525.5	526.1	527.2	528.1
180°	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1



TEST NUMBER: P935170  
 CATALOG NUMBER: SQ4-FA-100U-075D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6
2.5°	913.5	908.3	908.3	899.8	896.4	893.8	889.6	876.8	873.4	870.0	875.1
5°	921.2	911.8	904.9	889.6	876.8	871.7	855.5	824.8	804.4	789.0	780.5
7.5°	922.9	911.0	898.1	874.2	843.6	829.9	780.5	724.3	708.9	695.3	686.8
10°	921.2	907.5	889.6	853.8	781.4	757.5	708.1	671.5	662.1	659.5	662.1
12.5°	915.2	902.4	877.6	818.0	716.6	700.4	671.5	650.2	648.5	652.7	675.7
15°	904.9	893.0	864.0	770.3	680.8	668.9	648.5	640.8	650.2	680.0	749.0
17.5°	894.7	881.1	845.3	723.4	653.6	645.0	630.6	645.9	698.7	738.8	761.8
20°	881.1	864.9	824.0	689.4	634.0	626.3	619.5	688.5	728.5	743.0	755.8
22.5°	864.9	847.8	795.0	665.5	613.5	607.6	611.8	712.4	728.5	738.8	749.8
25°	843.6	829.1	760.9	646.8	597.3	590.5	606.7	709.8	719.2	721.7	743.9
27.5°	824.0	805.2	725.1	629.7	577.7	575.2	611.0	698.7	705.5	708.1	732.0
30°	800.1	772.0	685.1	611.8	557.3	556.4	611.8	685.1	683.4	690.2	714.1
32.5°	775.4	722.6	639.9	589.7	537.7	536.8	605.9	664.6	662.9	672.3	690.2
35°	752.4	684.2	578.6	564.1	513.0	513.8	591.4	640.8	641.6	650.2	661.2
37.5°	728.5	651.0	511.3	536.0	489.1	489.1	571.8	618.6	616.9	619.5	634.8
40°	700.4	599.0	451.6	499.4	467.0	464.4	547.9	594.8	588.8	588.0	609.3
42.5°	670.6	542.0	407.3	450.8	441.4	438.0	519.0	565.8	554.7	557.3	584.6
45°	638.2	526.6	373.3	380.9	415.0	412.5	487.4	532.6	524.9	531.7	559.8
47.5°	605.9	495.9	362.2	316.2	386.9	386.0	452.5	500.2	495.9	502.8	532.6
50°	561.6	461.9	361.3	270.9	355.4	358.8	410.7	468.7	468.7	474.6	506.2
52.5°	504.5	420.1	328.1	245.4	318.7	329.0	374.1	441.4	443.1	449.1	477.2
55°	452.5	376.7	304.2	225.8	275.2	297.3	338.3	413.3	416.7	422.7	448.2
57.5°	404.8	313.6	299.1	202.8	235.2	256.5	306.8	386.0	387.7	392.9	417.6
60°	353.7	226.6	274.3	178.1	200.2	216.4	277.8	353.7	359.6	363.0	384.3
62.5°	295.6	164.4	248.8	161.0	183.2	186.6	253.9	323.0	330.7	333.2	346.0
65°	210.4	138.0	211.3	146.5	165.3	166.1	228.3	291.4	298.2	302.5	311.9
67.5°	142.3	112.5	161.0	132.9	151.7	152.5	203.6	254.7	264.1	267.5	273.5
70°	98.8	75.0	119.3	118.4	136.3	138.0	177.2	221.5	230.0	232.6	236.0
72.5°	72.4	60.5	98.8	106.5	120.1	121.8	150.0	184.0	192.6	195.1	196.8
75°	55.4	63.9	80.1	92.9	102.2	103.1	122.7	150.0	155.9	157.6	158.5
77.5°	44.3	59.6	58.8	75.0	83.5	81.8	96.3	115.9	121.0	121.0	121.0
80°	33.2	46.9	44.3	53.7	61.3	59.6	69.0	82.6	84.3	86.1	85.2
82.5°	24.7	29.8	29.8	34.1	40.9	39.2	46.0	53.7	53.7	53.7	55.4
85°	15.3	17.0	13.6	17.9	23.0	22.2	25.6	29.0	29.8	29.8	28.1
87.5°	9.4	7.7	4.3	6.8	10.2	10.2	11.9	12.8	11.9	11.9	11.9
90°	9.2	6.4	3.6	6.4	9.2	9.9	15.6	23.2	26.9	23.9	18.0
92.5°	62.4	38.3	14.1	38.3	62.4	68.4	96.2	133.2	151.7	132.9	95.4
95°	122.3	78.1	34.0	78.1	122.3	133.3	236.6	374.4	443.3	395.6	300.2
97.5°	136.7	97.7	58.8	97.7	136.7	146.4	318.7	548.5	663.4	633.2	572.9
100°	148.5	113.2	78.0	113.2	148.5	157.4	348.6	603.6	731.1	733.3	737.7
102.5°	160.1	127.2	94.2	127.2	160.1	168.4	362.4	620.9	750.3	788.7	865.5
105°	177.6	149.8	121.9	149.8	177.6	184.6	372.5	622.9	748.1	834.3	1006.6
107.5°	202.3	176.3	150.3	176.3	202.3	208.7	374.4	595.1	705.5	825.8	1066.1
110°	216.3	192.9	169.4	192.9	216.3	222.2	371.5	570.6	670.1	804.5	1073.2



TEST NUMBER: P935170  
 CATALOG NUMBER: SQ4-FA-100U-075D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	232.9	210.5	188.2	210.5	232.9	238.5	371.6	549.1	637.9	775.4	1050.3
115°	257.7	237.1	216.5	237.1	257.7	262.9	375.1	524.6	599.3	731.8	996.7
117.5°	282.0	263.3	244.5	263.3	282.0	286.7	382.0	509.2	572.7	692.2	931.3
120°	296.1	278.4	260.8	278.4	296.1	300.5	387.7	504.0	562.1	671.3	889.7
122.5°	312.4	294.6	276.8	294.6	312.4	316.9	395.8	501.2	553.9	652.2	848.9
125°	333.6	317.5	301.3	317.5	333.6	337.7	406.8	498.9	545.0	628.6	795.7
127.5°	353.8	337.4	321.0	337.4	353.8	357.9	417.8	497.7	537.6	609.4	752.8
130°	367.0	349.3	331.7	349.3	367.0	371.4	425.8	498.5	534.8	598.7	726.4
132.5°	377.9	360.3	342.7	360.3	377.9	382.4	432.3	498.9	532.2	589.4	703.8
135°	391.2	375.1	359.0	375.1	391.2	395.2	439.5	498.5	528.1	576.0	671.6
137.5°	407.4	391.6	375.6	391.6	407.4	411.4	450.0	501.6	527.3	567.8	648.7
140°	418.8	404.1	389.4	404.1	418.8	422.4	456.6	502.1	524.8	559.8	629.7
142.5°	427.2	413.6	400.1	413.6	427.2	430.6	462.0	503.9	524.8	555.5	616.9
145°	440.0	428.2	416.4	428.2	440.0	443.0	469.1	504.0	521.3	546.5	596.7
147.5°	455.6	444.2	432.7	444.2	455.6	458.5	479.5	507.4	521.3	541.1	580.6
150°	464.1	453.7	443.3	453.7	464.1	466.7	485.0	509.2	521.3	538.0	571.4
152.5°	470.0	462.1	454.3	462.1	470.0	472.0	488.5	510.3	521.3	535.6	564.0
155°	482.3	476.4	470.6	476.4	482.3	483.8	496.3	513.0	521.3	532.7	555.3
157.5°	494.0	488.4	482.7	488.4	494.0	495.4	504.0	515.5	521.3	530.1	547.8
160°	499.6	495.3	490.8	495.3	499.6	500.7	507.6	516.7	521.3	528.9	544.0
162.5°	505.6	502.3	498.9	502.3	505.6	506.4	511.4	518.0	521.3	527.7	540.4
165°	513.8	510.8	507.8	510.8	513.8	514.5	516.8	519.8	521.3	525.9	535.1
167.5°	518.9	517.4	516.0	517.4	518.9	519.2	521.1	523.6	524.8	527.8	533.8
170°	524.2	522.7	521.3	522.7	524.2	524.5	524.6	524.7	524.8	527.8	533.8
172.5°	524.7	524.5	524.2	524.5	524.7	524.8	524.8	524.8	524.8	527.2	531.9
175°	528.1	528.1	528.1	528.1	528.1	528.1	527.0	525.5	524.8	526.4	529.3
177.5°	528.1	528.1	528.1	528.1	528.1	528.1	527.2	526.1	525.5	526.7	529.1
180°	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1



TEST NUMBER: P935170  
 CATALOG NUMBER: SQ4-FA-100U-075D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6
2.5°	869.1	866.6	870.0	860.6	870.0	866.6	869.1	875.1	870.0	873.4	876.8
5°	762.6	758.4	744.7	733.7	744.7	758.4	762.6	780.5	789.0	804.4	824.8
7.5°	681.7	678.3	674.9	668.1	674.9	678.3	681.7	686.8	695.3	708.9	724.3
10°	663.8	664.6	669.8	668.9	669.8	664.6	663.8	662.1	659.5	662.1	671.5
12.5°	709.8	717.5	745.6	743.9	745.6	717.5	709.8	675.7	652.7	648.5	650.2
15°	762.6	765.2	771.1	772.0	771.1	765.2	762.6	749.0	680.0	650.2	640.8
17.5°	767.7	768.6	772.8	772.8	772.8	768.6	767.7	761.8	738.8	698.7	645.9
20°	763.5	765.2	773.7	775.4	773.7	765.2	763.5	755.8	743.0	728.5	688.5
22.5°	761.8	765.2	772.0	771.1	772.0	765.2	761.8	749.8	738.8	728.5	712.4
25°	753.3	753.3	754.1	755.0	754.1	753.3	753.3	743.9	721.7	719.2	709.8
27.5°	735.4	737.1	742.2	741.3	742.2	737.1	735.4	732.0	708.1	705.5	698.7
30°	719.2	717.5	713.2	709.8	713.2	717.5	719.2	714.1	690.2	683.4	685.1
32.5°	691.9	687.6	683.4	680.8	683.4	687.6	691.9	690.2	672.3	662.9	664.6
35°	659.5	660.4	659.5	657.0	659.5	660.4	659.5	661.2	650.2	641.6	640.8
37.5°	636.5	638.2	637.4	634.0	637.4	638.2	636.5	634.8	619.5	616.9	618.6
40°	612.7	613.5	612.7	610.1	612.7	613.5	612.7	609.3	588.0	588.8	594.8
42.5°	589.7	588.8	586.3	584.6	586.3	588.8	589.7	584.6	557.3	554.7	565.8
45°	563.3	564.1	559.0	556.4	559.0	564.1	563.3	559.8	531.7	524.9	532.6
47.5°	536.8	536.8	532.6	530.0	532.6	536.8	536.8	532.6	502.8	495.9	500.2
50°	508.7	507.9	501.9	501.1	501.9	507.9	508.7	506.2	474.6	468.7	468.7
52.5°	476.4	476.4	477.2	478.9	477.2	476.4	476.4	477.2	449.1	443.1	441.4
55°	448.2	449.1	455.1	456.8	455.1	449.1	448.2	448.2	422.7	416.7	413.3
57.5°	419.3	419.3	423.5	423.5	423.5	419.3	419.3	417.6	392.9	387.7	386.0
60°	386.0	387.7	391.2	390.3	391.2	387.7	386.0	384.3	363.0	359.6	353.7
62.5°	351.1	352.8	353.7	352.0	353.7	352.8	351.1	346.0	333.2	330.7	323.0
65°	314.5	316.2	317.0	315.3	317.0	316.2	314.5	311.9	302.5	298.2	291.4
67.5°	276.9	276.0	275.2	278.6	275.2	276.0	276.9	273.5	267.5	264.1	254.7
70°	238.6	238.6	237.7	239.4	237.7	238.6	238.6	236.0	232.6	230.0	221.5
72.5°	197.7	196.8	200.2	197.7	200.2	196.8	197.7	196.8	195.1	192.6	184.0
75°	157.6	159.3	157.6	160.2	157.6	159.3	157.6	158.5	157.6	155.9	150.0
77.5°	120.1	121.8	120.1	120.1	120.1	121.8	120.1	121.0	121.0	121.0	115.9
80°	85.2	84.3	84.3	83.5	84.3	84.3	85.2	85.2	86.1	84.3	82.6
82.5°	54.5	53.7	53.7	55.4	53.7	53.7	54.5	55.4	53.7	53.7	53.7
85°	29.8	30.7	29.0	29.0	29.0	30.7	29.8	28.1	29.8	29.8	29.0
87.5°	11.1	10.2	10.2	10.2	10.2	10.2	11.1	11.9	11.9	11.9	12.8
90°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	18.0	23.9	26.9	23.2
92.5°	67.3	64.7	53.9	43.2	53.9	64.7	67.3	95.4	132.9	151.7	133.2
95°	228.6	220.5	188.0	155.6	188.0	220.5	228.6	300.2	395.6	443.3	374.4
97.5°	527.6	512.2	450.5	388.8	450.5	512.2	527.6	572.9	633.2	663.4	548.5
100°	741.0	722.6	649.1	575.5	649.1	722.6	741.0	737.7	733.3	731.1	603.6
102.5°	923.1	907.4	844.4	781.5	844.4	907.4	923.1	865.5	788.7	750.3	620.9
105°	1135.8	1127.4	1093.5	1059.6	1093.5	1127.4	1135.8	1006.6	834.3	748.1	622.9
107.5°	1246.4	1248.4	1256.6	1264.8	1256.6	1248.4	1246.4	1066.1	825.8	705.5	595.1
110°	1274.7	1283.5	1318.8	1354.1	1318.8	1283.5	1274.7	1073.2	804.5	670.1	570.6



TEST NUMBER: P935170

CATALOG NUMBER: SQ4-FA-100U-075D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1256.6	1270.2	1324.3	1378.5	1324.3	1270.2	1256.6	1050.3	775.4	637.9	549.1
115°	1195.4	1214.1	1289.2	1364.4	1289.2	1214.1	1195.4	996.7	731.8	599.3	524.6
117.5°	1110.7	1131.5	1214.8	1298.1	1214.8	1131.5	1110.7	931.3	692.2	572.7	509.2
120°	1053.6	1073.9	1154.8	1235.7	1154.8	1073.9	1053.6	889.7	671.3	562.1	504.0
122.5°	996.5	1016.4	1096.4	1176.2	1096.4	1016.4	996.5	848.9	652.2	553.9	501.2
125°	921.0	939.4	1012.9	1086.6	1012.9	939.4	921.0	795.7	628.6	545.0	498.9
127.5°	860.4	875.9	938.1	1000.1	938.1	875.9	860.4	752.8	609.4	537.6	497.7
130°	822.2	836.5	893.8	951.2	893.8	836.5	822.2	726.4	598.7	534.8	498.5
132.5°	789.5	802.4	853.7	905.1	853.7	802.4	789.5	703.8	589.4	532.2	498.9
135°	743.5	754.5	798.8	843.1	798.8	754.5	743.5	671.6	576.0	528.1	498.5
137.5°	709.5	718.5	754.8	791.0	754.8	718.5	709.5	648.7	567.8	527.3	501.6
140°	682.2	690.6	724.5	758.4	724.5	690.6	682.2	629.7	559.8	524.8	502.1
142.5°	663.0	670.4	699.5	728.6	699.5	670.4	663.0	616.9	555.5	524.8	503.9
145°	634.3	639.9	661.9	684.0	661.9	639.9	634.3	596.7	546.5	521.3	504.0
147.5°	610.3	614.9	633.1	651.4	633.1	614.9	610.3	580.6	541.1	521.3	507.4
150°	596.4	600.1	614.9	629.7	614.9	600.1	596.4	571.4	538.0	521.3	509.2
152.5°	585.4	588.2	599.4	610.6	599.4	588.2	585.4	564.0	535.6	521.3	510.3
155°	572.3	574.2	581.6	589.0	581.6	574.2	572.3	555.3	532.7	521.3	513.0
157.5°	561.0	562.2	567.5	572.7	567.5	562.2	561.0	547.8	530.1	521.3	515.5
160°	555.3	556.1	559.1	562.1	559.1	556.1	555.3	544.0	528.9	521.3	516.7
162.5°	550.0	550.6	553.5	556.4	553.5	550.6	550.0	540.4	527.7	521.3	518.0
165°	541.9	542.6	545.6	548.6	545.6	542.6	541.9	535.1	525.9	521.3	519.8
167.5°	538.3	538.6	539.8	541.1	539.8	538.6	538.3	533.8	527.8	524.8	523.6
170°	538.3	538.3	538.3	538.3	538.3	538.3	538.3	533.8	527.8	524.8	524.7
172.5°	535.5	535.2	534.1	533.0	534.1	535.2	535.5	531.9	527.2	524.8	524.8
175°	531.6	531.6	531.6	531.6	531.6	531.6	531.6	529.3	526.4	524.8	525.5
177.5°	530.9	530.5	529.3	528.1	529.3	530.5	530.9	529.1	526.7	525.5	526.1
180°	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1



TEST NUMBER: P935170  
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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	900.6	900.6	900.6	900.6	900.6
2.5°	889.6	893.8	896.4	899.8	908.3
5°	855.5	871.7	876.8	889.6	904.9
7.5°	780.5	829.9	843.6	874.2	898.1
10°	708.1	757.5	781.4	853.8	889.6
12.5°	671.5	700.4	716.6	818.0	877.6
15°	648.5	668.9	680.8	770.3	864.0
17.5°	630.6	645.0	653.6	723.4	845.3
20°	619.5	626.3	634.0	689.4	824.0
22.5°	611.8	607.6	613.5	665.5	795.0
25°	606.7	590.5	597.3	646.8	760.9
27.5°	611.0	575.2	577.7	629.7	725.1
30°	611.8	556.4	557.3	611.8	685.1
32.5°	605.9	536.8	537.7	589.7	639.9
35°	591.4	513.8	513.0	564.1	578.6
37.5°	571.8	489.1	489.1	536.0	511.3
40°	547.9	464.4	467.0	499.4	451.6
42.5°	519.0	438.0	441.4	450.8	407.3
45°	487.4	412.5	415.0	380.9	373.3
47.5°	452.5	386.0	386.9	316.2	362.2
50°	410.7	358.8	355.4	270.9	361.3
52.5°	374.1	329.0	318.7	245.4	328.1
55°	338.3	297.3	275.2	225.8	304.2
57.5°	306.8	256.5	235.2	202.8	299.1
60°	277.8	216.4	200.2	178.1	274.3
62.5°	253.9	186.6	183.2	161.0	248.8
65°	228.3	166.1	165.3	146.5	211.3
67.5°	203.6	152.5	151.7	132.9	161.0
70°	177.2	138.0	136.3	118.4	119.3
72.5°	150.0	121.8	120.1	106.5	98.8
75°	122.7	103.1	102.2	92.9	80.1
77.5°	96.3	81.8	83.5	75.0	58.8
80°	69.0	59.6	61.3	53.7	44.3
82.5°	46.0	39.2	40.9	34.1	29.8
85°	25.6	22.2	23.0	17.9	13.6
87.5°	11.9	10.2	10.2	6.8	4.3
90°	15.6	9.9	9.2	6.4	3.6
92.5°	96.2	68.4	62.4	38.3	14.1
95°	236.6	133.3	122.3	78.1	34.0
97.5°	318.7	146.4	136.7	97.7	58.8
100°	348.6	157.4	148.5	113.2	78.0
102.5°	362.4	168.4	160.1	127.2	94.2
105°	372.5	184.6	177.6	149.8	121.9
107.5°	374.4	208.7	202.3	176.3	150.3
110°	371.5	222.2	216.3	192.9	169.4



TEST NUMBER: P935170

CATALOG NUMBER: SQ4-FA-100U-075D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	371.6	238.5	232.9	210.5	188.2
115°	375.1	262.9	257.7	237.1	216.5
117.5°	382.0	286.7	282.0	263.3	244.5
120°	387.7	300.5	296.1	278.4	260.8
122.5°	395.8	316.9	312.4	294.6	276.8
125°	406.8	337.7	333.6	317.5	301.3
127.5°	417.8	357.9	353.8	337.4	321.0
130°	425.8	371.4	367.0	349.3	331.7
132.5°	432.3	382.4	377.9	360.3	342.7
135°	439.5	395.2	391.2	375.1	359.0
137.5°	450.0	411.4	407.4	391.6	375.6
140°	456.6	422.4	418.8	404.1	389.4
142.5°	462.0	430.6	427.2	413.6	400.1
145°	469.1	443.0	440.0	428.2	416.4
147.5°	479.5	458.5	455.6	444.2	432.7
150°	485.0	466.7	464.1	453.7	443.3
152.5°	488.5	472.0	470.0	462.1	454.3
155°	496.3	483.8	482.3	476.4	470.6
157.5°	504.0	495.4	494.0	488.4	482.7
160°	507.6	500.7	499.6	495.3	490.8
162.5°	511.4	506.4	505.6	502.3	498.9
165°	516.8	514.5	513.8	510.8	507.8
167.5°	521.1	519.2	518.9	517.4	516.0
170°	524.6	524.5	524.2	522.7	521.3
172.5°	524.8	524.8	524.7	524.5	524.2
175°	527.0	528.1	528.1	528.1	528.1
177.5°	527.2	528.1	528.1	528.1	528.1
180°	528.1	528.1	528.1	528.1	528.1



TEST NUMBER: P935170  
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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	11.23	12.01	12.27	13.06	14.45	14.03	14.81	15.06	15.85	17.25
	3H	11.70	12.40	12.75	13.45	14.87	15.36	16.06	16.40	17.11	18.53
	4H	11.89	12.55	12.95	13.61	15.03	15.79	16.46	16.85	17.51	18.93
	6H	12.01	12.62	13.07	13.67	15.11	16.06	16.68	17.13	17.73	19.17
	8H	12.00	12.59	13.07	13.66	15.09	16.13	16.71	17.20	17.79	19.22
	12H	11.97	12.53	13.05	13.59	15.05	16.16	16.72	17.24	17.78	19.24
4H	2H	12.25	12.91	13.31	13.96	15.39	14.43	15.09	15.49	16.15	17.57
	3H	13.27	13.82	14.34	14.90	16.34	15.92	16.47	16.99	17.55	18.99
	4H	13.54	14.05	14.62	15.12	16.58	16.44	16.94	17.51	18.01	19.47
	6H	13.66	14.10	14.74	15.19	16.64	16.79	17.22	17.87	18.32	19.77
	8H	13.66	14.07	14.75	15.16	16.63	16.89	17.30	17.97	18.38	19.85
	12H	13.63	13.99	14.73	15.09	16.57	16.94	17.30	18.04	18.40	19.88
8H	4H	13.98	14.39	15.07	15.47	16.94	16.56	16.96	17.64	18.05	19.52
	6H	14.24	14.57	15.35	15.70	17.17	16.98	17.32	18.09	18.44	19.91
	8H	14.28	14.58	15.40	15.68	17.17	17.13	17.42	18.24	18.53	20.02
	12H	14.26	14.52	15.38	15.63	17.15	17.22	17.47	18.33	18.58	20.11
12H	4H	13.98	14.35	15.09	15.45	16.92	16.52	16.88	17.62	17.98	19.46
	6H	14.30	14.59	15.41	15.70	17.19	16.98	17.27	18.09	18.38	19.87
	8H	14.36	14.62	15.48	15.72	17.25	17.13	17.39	18.25	18.49	20.02